

**FLUOROPHOSPHATE GLASS
AND METHOD FOR MAKING THEREOF**

ABSTRACT OF THE DISCLOSURE

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[0022] New and improved compositions of doped fluorophosphate glasses for lasers have a high refractive index (nD) of approximately 1.6 to 1.7, high transmission in the near infrared part of the spectrum and a wide glass forming domain. These glass systems, $\text{Ba}(\text{PO}_3)_2$ - $\text{Al}(\text{PO}_3)_3$ - BaF_2 - Dopants, utilize dopants from the group of oxides or fluorides of the rare earth elements Nd, Er, Yb, Tm, Tb, Ho and Pr as well as MnO and mixtures thereof. The composition of glass includes chemical durability, efficiency of laser use in the infrared spectrum and improved duration of luminescence. It is emphasized that this abstract is provided to comply with the rules requiring an abstract that will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure. It is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims.